



75 / 150 / 250M QUAD PHOTOELECTRIC BEAM SENSOR

4PH-75 / 150 / 250BQE



NEW FUNCTION • NEW DESIGN

FEATURES :

- A.G.C. (Automatic Gain Control) Circuit.
- Double Modulation Beam Frequency.
- Selectable 4-Channel Beam Frequencies.
- High Grade Aspherical Lens.
- Optional Heating Unit for cold areas.
- Protection against Rain, Dust & Insect.
- Protection against Frost, Snow & Dew.
- Adjustable Beam Interruption Period.
- Static, Lightning & Surge Resistance.
- Environment Detection Function

ISO-9001



75 / 150 / 250M QUAD PHOTOELECTRIC BEAM SENSOR

4PH-75/150/250BQE



FEATURES :

● RAIN, DUST & INSECTS PROTECTION

The Rubber O-Ring & Rubber Grommets used in the to prevent rain, dust and tiny insects from adversely affecting performance.



● DOUBLE MODULATION IR BEAM FREQUENCY

● FORM C RELAY (N.C./N.O.)

● FROST & DEW PROTECTION

An anti-frost design is to protect the detector from effect of frost & dew.

● 99% BEAM BLOCKING STABILITY

Enabling stable operation with as much as 99% loss of beam energy.

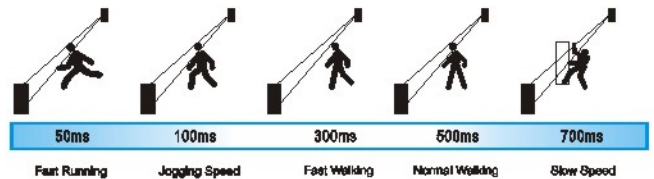
● AUTOMATIC GAIN CONTROL (A.G.C.)

The A.G.C. Circuit continually monitors for gradual changes in the signal's strength caused by weather conditions and adjusts the trigger level accordingly, to maintain proper sensitivity.

● STAINLESS SCREWS & BACK PLATE

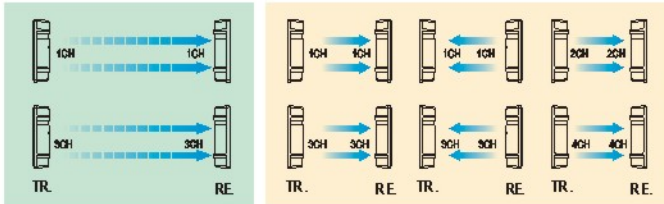
● ADJUSTABLE BEAM INTERRUPTION PERIOD

Beam interruption time can be adjusted according to the peculiarities of each installation location. When protecting a wall or fence, a long interruption time could catch intruders, but let jumping cats or small objects pass through.



● SELECTABLE 4-CHANNEL BEAM FREQUENCY

- 1 2-stacked protection. 2 Line and 2-stacked protection.



SPECIFICATIONS :

MODEL	4PH-75BQE	4PH-150BQE	4PH-250BQE	
Detection Distance	Outdoor	22.5 ft. (7.5 m)	450 ft. (150 m)	750 ft. (250 m)
	Indoor	450 ft. (150 m)	900 ft. (300 m)	1500 ft. (500 m)
Max. Arrival Distance	22.50 ft. (7.50 m)	45.00 ft. (15.00 m)	750.0 ft. (250.0 m)	
Current Consumption	73mA (max)	83mA (max)	97mA (max)	
Selectable Frequency	4 channel			
Power Supply	10.5V ~ 30VDC (Non_Polarity)			
Infrared Photoelectric	LED pulsed beam, Double modulation			
Detection System	Simultaneous breaking of 2 beams			
Response Time	50msec ~ 700msec (Adjustable)			
Alarm Output	Dry connect relay NC / NO. 0.2A / 28VDC Contact Action: 1 To 3 sec.			
Tamper Output	Dry connect relay NC. 0.2A / 28VDC Action: cover is detached.			
Environment Output	Dry connect relay NC / NO. 0.2A / 28VDC Contact Action: Heavy mist situation			
Alarm LED	Red LED (Receiver) lights when an alarm is initiated.			
Attenuation LED	Yellow LED (Receiver) lights when beam is attenuated			
Functions	RF-Monitor Jack, Meter Monitor Jack output A.G.C circuit, Frost proof cover.			
Alignment Angle	Horizontal $\pm 90^\circ$, Vertical $\pm 10^\circ$			
Operating Temperature	-13°F to +131°F (-25°C to +55°C)			
Mounting Positions	Indoor/Outdoor			
Wiring	Terminals			
Weight	Transmitter (1385g) & Receiver (1485g)			
Dimensions	W100 x H390 x D99.80 mm			
Standard Accessories	U-Shaped Brackets x 4, Attenuation Sheets: 2 Screws (4x20 Self tapping) x 8, Screws (M4x20) x 8			
Option	Heating Unit (HT-200)			

● HEATING UNIT - HT-200 (OPTION PART)

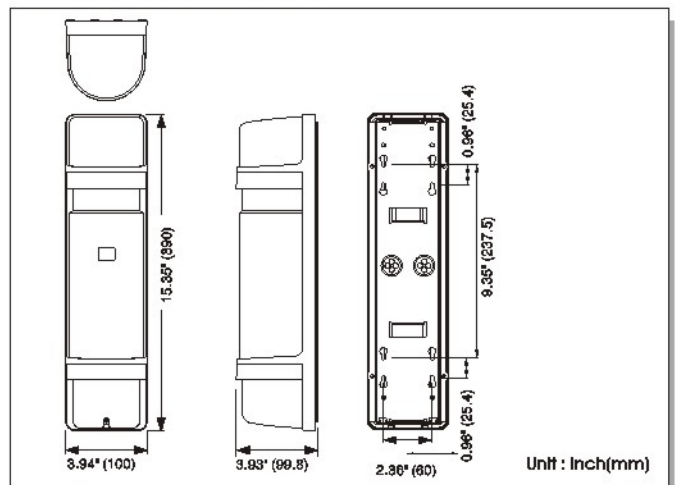
For use in cold areas
(Temperature control switch inside),
24V DC/AC, 400mA max. (800mA/set)



● ENVIRONMENT DETECTION

The environmental signal is initiated if the beam reception level is reduced under certain situation.

DIMENSIONS :



No.4P-H250BQE-0528A

NOTE :

- This unit is designed to detect an intruder and activate an alarm control panel. Being only a part of complete system, we cannot assume responsibility for theft or damages, should it occur.
- Specifications and design are subject to change without prior notice.



Taiwan Security Net Co., Ltd.

Designing / Manufacturing